

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P675928

Luminaire Tested: **CCW-SA-2D-850-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675928
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-850-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

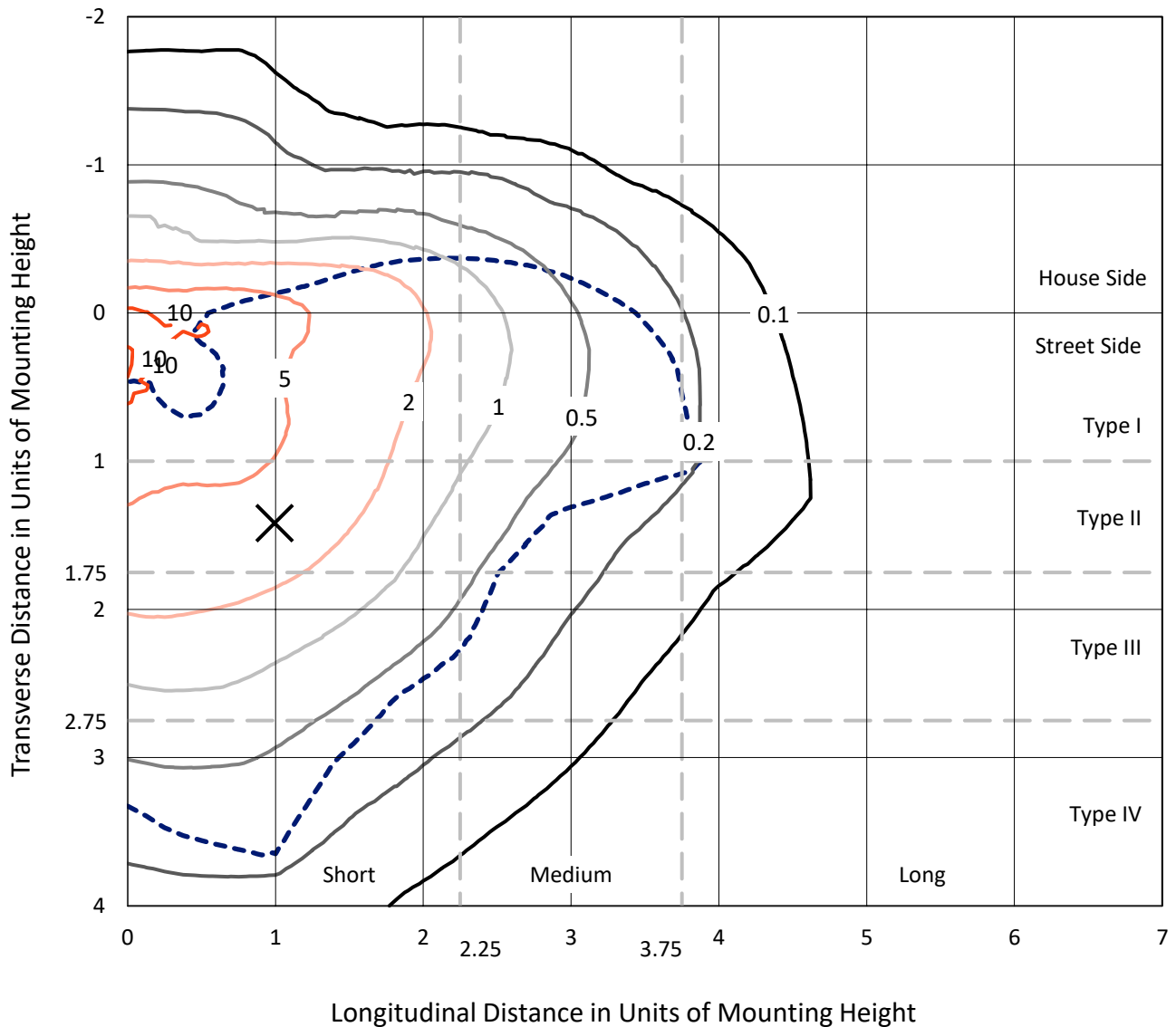
Lumens per Lamp: N/A
Luminaire Lumens: 8074.8 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P675928
 CATALOG NUMBER: CCW-SA-2D-850-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

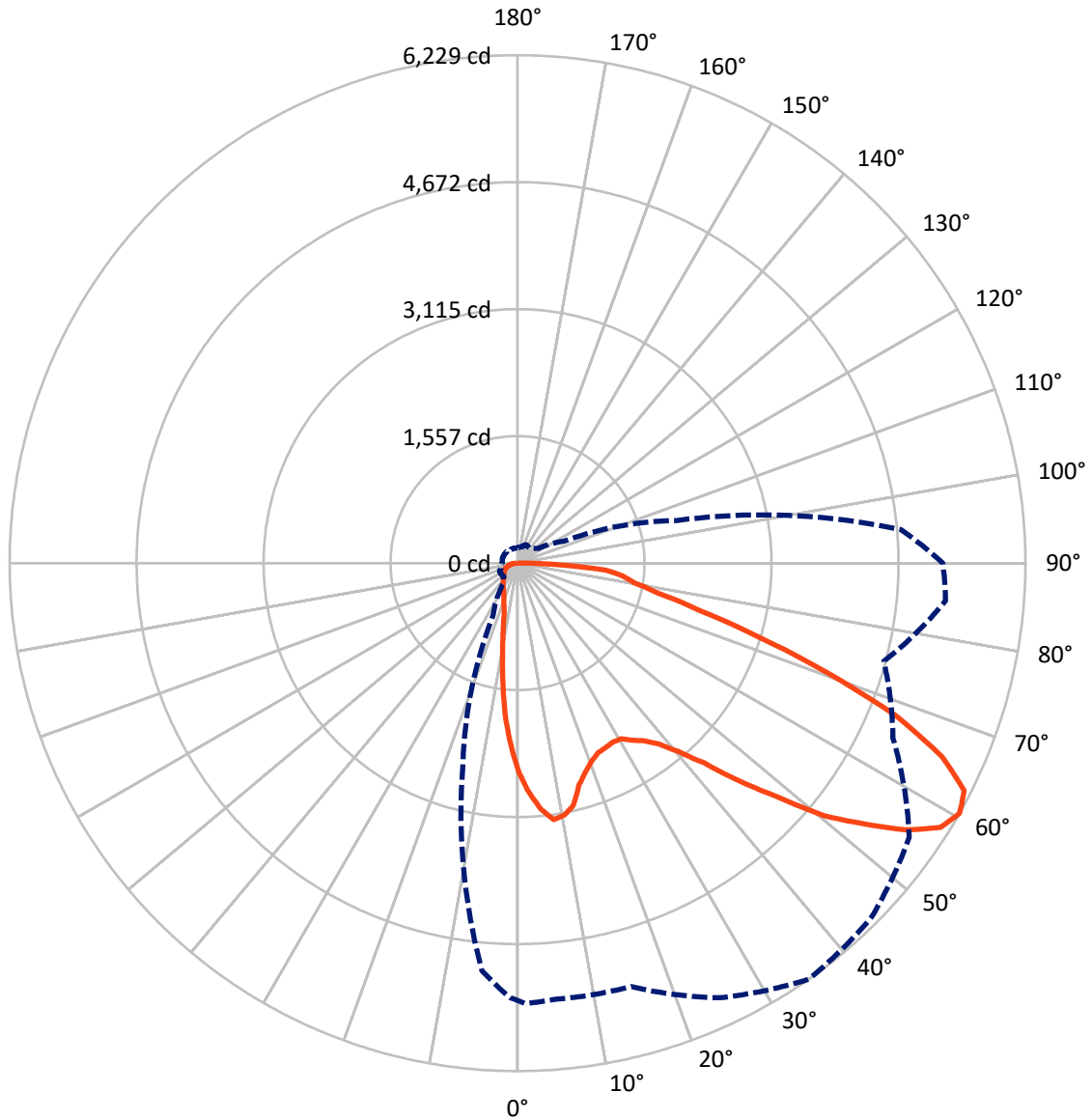
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P675928
CATALOG NUMBER: CCW-SA-2D-850-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P675928
 CATALOG NUMBER: CCW-SA-2D-850-U-SLL

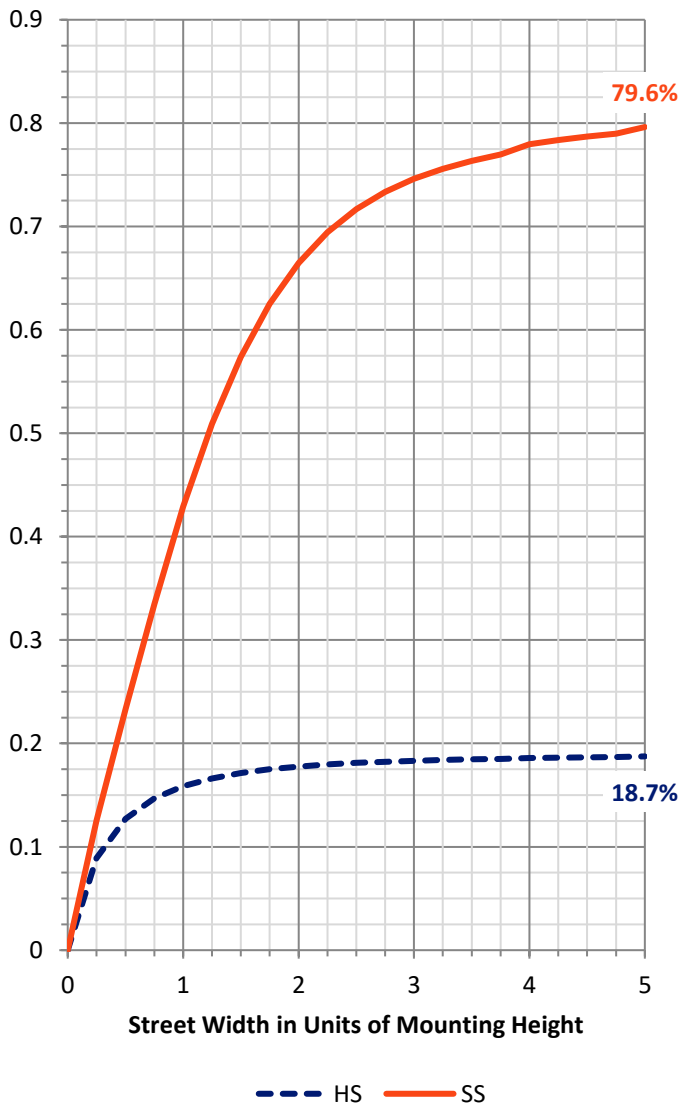
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1536.7	0.0	1536.7
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	6538.1	0.0	6538.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	8074.8	0.0	8074.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	2.5
10°-20°	423.0	5.2
20°-30°	618.9	7.7
30°-40°	872.0	10.8
40°-50°	1198.4	14.8
50°-60°	1633.3	20.2
60°-70°	1787.6	22.1
70°-80°	1032.1	12.8
80°-90°	309.1	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8074.8	100.0
0°-180°	8074.8	100.0



REPORT NUMBER: P675928

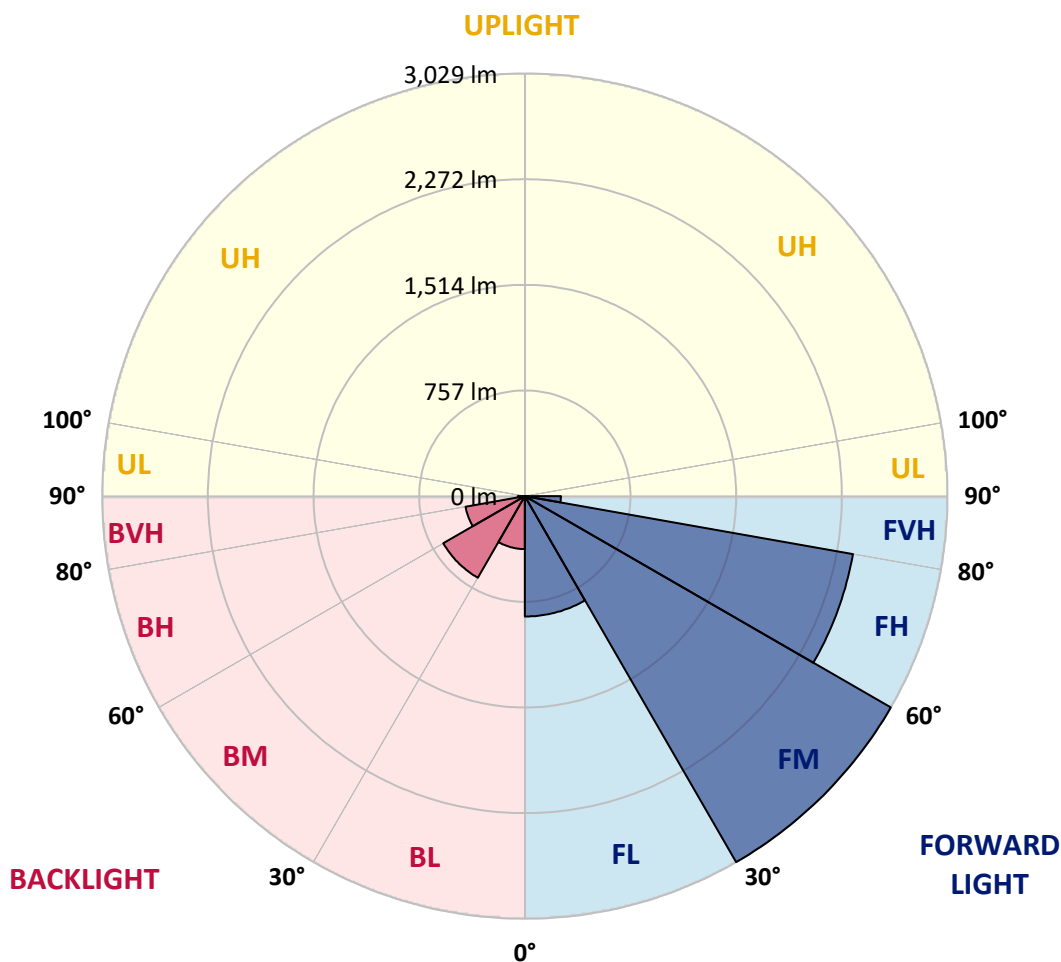
CATALOG NUMBER: CCW-SA-2D-850-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.6	10.7			
FM (30°-60°)	3028.7	37.5			
FH (60°-80°)	2388.0	29.6			G2/5000
FVH (80°-90°)	258.7	3.2			G3/500
BL (0°-30°)	379.7	4.7	B1/500		
BM (30°-60°)	675.1	8.4	B1/1000		
BH (60°-80°)	431.6	5.3	B1/500		G1/500
BVH (80°-90°)	50.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P675928

CATALOG NUMBER: CCW-SA-2D-850-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1
2.5°	2761.7	2751.0	2761.7	2801.1	2811.9	2829.8	2829.8	2804.7	2758.2	2736.7	2700.8
5°	2822.6	2804.7	2894.3	2976.7	3041.1	3034.0	2973.1	2922.9	2829.8	2690.1	2557.6
7.5°	2700.8	2718.8	2783.2	2998.2	3148.6	3177.3	3080.5	2980.2	2779.6	2586.2	2407.1
10°	2471.6	2496.7	2636.4	2858.5	3094.9	3141.4	3080.5	2958.7	2718.8	2478.8	2271.0
12.5°	2360.6	2417.9	2500.3	2768.9	2937.3	3048.3	3019.6	2940.8	2672.2	2389.2	2188.6
15°	2360.6	2374.9	2496.7	2722.3	2819.0	2822.6	2833.4	2847.7	2686.5	2428.6	2160.0
17.5°	2435.8	2475.2	2579.1	2718.8	2736.7	2693.7	2693.7	2754.6	2715.2	2539.7	2263.8
20°	2618.5	2604.1	2740.2	2797.6	2700.8	2593.4	2582.6	2686.5	2747.4	2657.9	2453.7
22.5°	2801.1	2865.6	2976.7	2847.7	2668.6	2525.3	2511.0	2639.9	2844.1	2862.0	2672.2
25°	3077.0	3141.4	3198.7	3041.1	2665.0	2507.4	2518.2	2618.5	2962.3	3152.2	3037.6
27.5°	3374.3	3413.7	3496.1	3252.5	2751.0	2485.9	2496.7	2647.1	3073.4	3342.0	3324.1
30°	3542.6	3585.6	3567.7	3291.9	2808.3	2500.3	2471.6	2686.5	3012.5	3342.0	3510.4
32.5°	3707.4	3682.3	3671.6	3356.4	2879.9	2589.8	2518.2	2768.9	3048.3	3395.8	3750.4
35°	3908.0	3872.2	3843.5	3481.7	2998.2	2675.8	2643.5	2876.4	3127.1	3506.8	3943.8
37.5°	4130.1	4130.1	3990.4	3574.9	3137.8	2815.5	2779.6	3030.4	3252.5	3574.9	4208.9
40°	4391.6	4402.3	4155.1	3700.2	3295.5	3037.6	3026.8	3231.0	3374.3	3675.2	4463.2
42.5°	4585.0	4592.1	4298.4	3746.8	3478.1	3345.6	3392.2	3553.4	3514.0	3764.7	4481.1
45°	4717.5	4681.7	4398.7	3879.3	3678.7	3807.7	3822.0	3868.6	3696.6	3818.4	4552.7
47.5°	4782.0	4774.8	4441.7	4033.4	4101.4	4276.9	4359.3	4294.8	3865.0	3761.1	4552.7
50°	4846.5	4785.6	4481.1	4244.7	4513.3	4868.0	4850.1	4731.8	4097.8	3832.8	4484.7
52.5°	4889.5	4835.7	4559.9	4434.5	4907.4	5308.6	5380.2	5161.7	4370.1	3965.3	4516.9
55°	5043.5	5000.5	4796.3	4692.4	5362.3	5774.2	5785.0	5480.5	4656.6	4183.8	4728.3
57.5°	5229.7	5254.8	5122.3	5057.8	5709.7	6114.5	6075.1	5716.9	4900.2	4448.9	4971.8
60°	5362.3	5401.7	5369.4	5376.6	5881.7	6229.1	6139.6	5863.8	5079.3	4649.5	5269.2
62.5°	5290.6	5369.4	5502.0	5473.3	5888.8	6146.7	6021.4	5670.3	5100.8	4910.9	5494.8
65°	5093.6	5100.8	5358.7	5516.3	5566.5	5720.5	5555.7	5265.6	4878.7	5072.1	5462.6
67.5°	4588.6	4645.9	4878.7	5186.8	4975.4	5011.2	4996.9	4577.8	4542.0	4961.1	5215.4
70°	4051.3	4090.7	4345.0	4706.8	4201.7	4033.4	4065.6	3754.0	3900.8	4617.2	4717.5
72.5°	3349.2	3374.3	3664.4	3983.2	3370.7	3069.8	3145.0	2890.7	3098.4	4040.5	3979.6
75°	2528.9	2575.5	2801.1	3177.3	2482.3	2288.9	2364.1	2260.3	2453.7	3327.7	3087.7
77.5°	1798.2	1762.4	2041.8	2485.9	1866.2	1751.6	1758.8	1776.7	1984.4	2804.7	2217.3
80°	1225.1	1235.8	1486.5	1823.2	1465.0	1447.1	1429.2	1572.5	1665.6	2220.9	1611.9
82.5°	727.2	727.2	1003.0	1296.7	1157.0	1303.9	1221.5	1350.4	1303.9	1633.4	1056.7
85°	340.3	340.3	515.8	934.9	895.5	1074.6	913.4	1020.9	963.6	1139.1	476.4
87.5°	57.3	50.1	103.9	458.5	368.9	419.1	164.8	544.5	605.4	795.2	118.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675928
 CATALOG NUMBER: CCW-SA-2D-850-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1
2.5°	2661.4	2636.4	2586.2	2521.7	2468.0	2400.0	2378.5	2331.9	2267.4	2260.3	2231.6
5°	2507.4	2421.4	2314.0	2181.5	2091.9	1998.8	1920.0	1873.4	1819.7	1812.5	1798.2
7.5°	2339.1	2231.6	2052.5	1894.9	1740.9	1594.0	1522.4	1432.8	1371.9	1325.3	1303.9
10°	2181.5	2081.2	1859.1	1644.1	1508.0	1411.3	1325.3	1232.2	1157.0	1099.7	1078.2
12.5°	2077.6	1959.4	1719.4	1515.2	1414.9	1303.9	1207.1	1106.8	1010.1	934.9	895.5
15°	2031.0	1920.0	1676.4	1450.7	1303.9	1149.8	1038.8	938.5	820.3	766.6	748.6
17.5°	2142.0	1977.3	1662.1	1375.5	1167.7	992.2	856.1	748.6	662.7	608.9	587.5
20°	2285.3	2081.2	1687.1	1285.9	1038.8	841.8	691.3	576.7	519.4	480.0	476.4
22.5°	2468.0	2235.2	1726.5	1221.5	895.5	677.0	540.9	472.8	433.4	429.8	422.7
25°	2794.0	2514.6	1791.0	1135.5	780.9	558.8	462.1	422.7	404.8	394.0	401.2
27.5°	3073.4	2697.3	1837.6	1081.8	734.3	526.6	447.8	404.8	386.9	383.3	386.9
30°	3238.1	2865.6	1823.2	981.5	641.2	501.5	476.4	462.1	426.3	397.6	397.6
32.5°	3388.6	2973.1	1819.7	891.9	548.0	419.1	397.6	386.9	408.4	422.7	411.9
35°	3596.3	3141.4	1808.9	841.8	508.6	386.9	351.0	322.4	308.1	300.9	311.6
37.5°	3818.4	3256.1	1780.3	834.6	487.2	368.9	340.3	311.6	297.3	290.1	286.6
40°	4062.0	3377.8	1748.0	798.8	476.4	358.2	329.5	304.5	286.6	275.8	272.2
42.5°	4219.6	3474.6	1715.8	780.9	454.9	351.0	318.8	297.3	279.4	265.1	265.1
45°	4309.2	3589.2	1683.5	763.0	429.8	354.6	318.8	290.1	268.7	261.5	254.3
47.5°	4348.6	3675.2	1672.8	734.3	408.4	340.3	311.6	283.0	261.5	247.2	243.6
50°	4452.5	3857.8	1712.2	712.8	383.3	326.0	329.5	279.4	257.9	240.0	236.4
52.5°	4513.3	4004.7	1798.2	680.6	365.4	308.1	322.4	272.2	247.2	229.2	229.2
55°	4735.4	4248.3	1891.3	655.5	343.9	283.0	297.3	257.9	229.2	218.5	218.5
57.5°	5018.4	4506.2	1970.1	644.8	329.5	265.1	265.1	250.7	218.5	204.2	200.6
60°	5215.4	4717.5	2016.7	637.6	315.2	247.2	236.4	250.7	207.8	193.4	189.8
62.5°	5236.9	4595.7	1970.1	634.0	311.6	229.2	214.9	240.0	197.0	182.7	175.5
65°	5100.8	4348.6	1841.2	619.7	308.1	211.3	200.6	207.8	182.7	171.9	164.8
67.5°	4828.6	3947.4	1654.9	612.5	304.5	197.0	182.7	179.1	168.4	157.6	150.4
70°	4194.5	3424.4	1436.4	580.3	297.3	186.3	164.8	161.2	150.4	143.3	139.7
72.5°	3521.1	2801.1	1185.6	537.3	283.0	168.4	150.4	143.3	139.7	129.0	125.4
75°	2697.3	2156.4	949.2	476.4	247.2	150.4	132.5	125.4	121.8	114.6	111.0
77.5°	1894.9	1604.7	702.1	386.9	207.8	136.1	118.2	111.0	107.5	96.7	96.7
80°	1285.9	1124.8	476.4	268.7	161.2	111.0	103.9	96.7	89.6	82.4	82.4
82.5°	798.8	788.0	343.9	175.5	118.2	89.6	82.4	82.4	71.6	64.5	64.5
85°	365.4	483.6	240.0	121.8	89.6	68.1	68.1	64.5	57.3	46.6	46.6
87.5°	114.6	161.2	125.4	53.7	50.1	39.4	39.4	35.8	35.8	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675928
 CATALOG NUMBER: CCW-SA-2D-850-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1
2.5°	2260.3	2256.7	2256.7	2242.3	2278.2	2278.2	2299.7	2281.7	2292.5	2296.1	2324.7
5°	1794.6	1823.2	1844.7	1887.7	1912.8	1923.5	1923.5	1952.2	1941.5	1962.9	2005.9
7.5°	1314.6	1350.4	1414.9	1468.6	1511.6	1525.9	1522.4	1529.5	1540.3	1515.2	1522.4
10°	1063.9	1038.8	1060.3	1110.4	1149.8	1196.4	1160.6	1157.0	1167.7	1157.0	1178.5
12.5°	888.3	859.7	841.8	841.8	870.4	891.9	881.2	899.1	938.5	949.2	974.3
15°	720.0	694.9	680.6	662.7	691.3	698.5	709.2	734.3	763.0	777.3	806.0
17.5°	576.7	576.7	576.7	562.4	573.1	583.9	587.5	619.7	623.3	637.6	648.3
20°	472.8	483.6	501.5	508.6	519.4	519.4	512.2	530.1	515.8	526.6	533.7
22.5°	426.3	440.6	447.8	451.3	465.7	469.2	451.3	454.9	458.5	447.8	451.3
25°	401.2	408.4	401.2	404.8	408.4	401.2	404.8	411.9	408.4	415.5	411.9
27.5°	390.4	383.3	379.7	376.1	376.1	368.9	372.5	372.5	379.7	383.3	383.3
30°	390.4	379.7	365.4	354.6	354.6	343.9	351.0	358.2	361.8	368.9	368.9
32.5°	401.2	379.7	354.6	343.9	333.1	326.0	333.1	343.9	358.2	361.8	365.4
35°	318.8	329.5	326.0	311.6	308.1	308.1	304.5	304.5	293.7	293.7	290.1
37.5°	286.6	283.0	290.1	293.7	297.3	286.6	286.6	272.2	268.7	272.2	272.2
40°	268.7	268.7	268.7	279.4	283.0	275.8	265.1	257.9	257.9	257.9	261.5
42.5°	261.5	254.3	250.7	257.9	268.7	261.5	250.7	247.2	247.2	250.7	250.7
45°	250.7	247.2	243.6	240.0	254.3	243.6	240.0	236.4	236.4	236.4	240.0
47.5°	240.0	236.4	229.2	229.2	232.8	229.2	225.7	225.7	225.7	232.8	232.8
50°	232.8	229.2	222.1	222.1	222.1	222.1	218.5	218.5	218.5	222.1	225.7
52.5°	222.1	218.5	214.9	211.3	211.3	211.3	211.3	211.3	211.3	214.9	218.5
55°	211.3	207.8	204.2	204.2	207.8	207.8	204.2	207.8	204.2	207.8	211.3
57.5°	200.6	197.0	193.4	197.0	200.6	197.0	197.0	197.0	197.0	197.0	200.6
60°	186.3	186.3	186.3	186.3	193.4	193.4	193.4	193.4	186.3	189.8	193.4
62.5°	179.1	175.5	175.5	179.1	182.7	182.7	186.3	182.7	179.1	182.7	182.7
65°	164.8	164.8	164.8	168.4	168.4	171.9	171.9	171.9	168.4	171.9	171.9
67.5°	154.0	154.0	154.0	154.0	161.2	161.2	161.2	161.2	157.6	157.6	161.2
70°	136.1	139.7	136.1	143.3	150.4	146.9	150.4	150.4	146.9	143.3	150.4
72.5°	125.4	125.4	125.4	125.4	136.1	136.1	136.1	139.7	136.1	132.5	136.1
75°	111.0	111.0	111.0	114.6	121.8	121.8	121.8	121.8	121.8	118.2	118.2
77.5°	96.7	100.3	96.7	100.3	107.5	103.9	107.5	111.0	107.5	103.9	103.9
80°	82.4	82.4	82.4	86.0	89.6	89.6	89.6	93.1	89.6	86.0	86.0
82.5°	64.5	64.5	68.1	68.1	71.6	71.6	71.6	75.2	71.6	68.1	68.1
85°	50.1	50.1	50.1	53.7	53.7	57.3	57.3	60.9	60.9	57.3	57.3
87.5°	32.2	28.7	32.2	32.2	35.8	35.8	32.2	28.7	32.2	28.7	25.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675928
 CATALOG NUMBER: CCW-SA-2D-850-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1	2579.1
2.5°	2353.4	2417.9	2464.4	2496.7	2543.2	2632.8	2668.6	2733.1	2751.0	2761.7
5°	2023.8	2091.9	2192.2	2263.8	2346.2	2514.6	2643.5	2740.2	2783.2	2822.6
7.5°	1586.8	1676.4	1780.3	1873.4	2009.5	2217.3	2385.6	2586.2	2661.4	2700.8
10°	1239.4	1321.8	1436.4	1551.0	1740.9	1916.4	2156.4	2339.1	2442.9	2471.6
12.5°	1045.9	1142.7	1278.8	1418.5	1536.7	1737.3	1980.9	2245.9	2342.6	2360.6
15°	888.3	1020.9	1160.6	1303.9	1440.0	1615.5	1877.0	2199.4	2342.6	2360.6
17.5°	734.3	852.5	1017.3	1171.3	1328.9	1568.9	1894.9	2238.8	2382.0	2435.8
20°	583.9	698.5	827.4	1020.9	1235.8	1490.1	1934.3	2371.3	2561.1	2618.5
22.5°	483.6	533.7	659.1	845.4	1099.7	1436.4	1973.7	2579.1	2779.6	2801.1
25°	422.7	458.5	537.3	712.8	992.2	1400.6	2066.8	2819.0	3077.0	3077.0
27.5°	394.0	408.4	462.1	619.7	917.0	1368.3	2160.0	3084.1	3324.1	3374.3
30°	386.9	422.7	451.3	551.6	834.6	1278.8	2245.9	3291.9	3539.0	3542.6
32.5°	379.7	372.5	394.0	480.0	734.3	1185.6	2317.6	3503.2	3696.6	3707.4
35°	297.3	311.6	347.5	422.7	659.1	1117.6	2353.4	3617.8	3897.2	3908.0
37.5°	279.4	297.3	326.0	390.4	608.9	1060.3	2364.1	3839.9	4108.6	4130.1
40°	272.2	286.6	308.1	361.8	569.5	988.6	2385.6	4069.2	4420.2	4391.6
42.5°	257.9	275.8	297.3	347.5	537.3	934.9	2389.2	4194.5	4585.0	4585.0
45°	254.3	265.1	290.1	347.5	501.5	888.3	2331.9	4319.9	4774.8	4717.5
47.5°	240.0	261.5	283.0	336.7	458.5	841.8	2263.8	4384.4	4799.9	4782.0
50°	236.4	257.9	293.7	318.8	433.4	820.3	2249.5	4545.6	4850.1	4846.5
52.5°	229.2	250.7	304.5	304.5	401.2	791.6	2317.6	4617.2	4860.8	4889.5
55°	218.5	250.7	283.0	279.4	372.5	755.8	2392.8	4803.5	5050.6	5043.5
57.5°	211.3	243.6	268.7	254.3	340.3	730.7	2503.8	4982.6	5279.9	5229.7
60°	200.6	243.6	240.0	236.4	315.2	709.2	2597.0	5018.4	5330.0	5362.3
62.5°	193.4	254.3	211.3	218.5	293.7	698.5	2557.6	4749.8	5262.0	5290.6
65°	186.3	218.5	193.4	200.6	286.6	677.0	2403.5	4427.4	4968.3	5093.6
67.5°	171.9	179.1	179.1	186.3	279.4	626.9	2088.3	3847.1	4520.5	4588.6
70°	157.6	161.2	161.2	171.9	272.2	569.5	1723.0	3327.7	3922.3	4051.3
72.5°	143.3	143.3	143.3	157.6	250.7	523.0	1418.5	2557.6	3259.6	3349.2
75°	125.4	125.4	125.4	139.7	225.7	476.4	1117.6	1902.1	2400.0	2528.9
77.5°	111.0	111.0	107.5	125.4	197.0	386.9	806.0	1343.3	1690.7	1798.2
80°	93.1	89.6	89.6	100.3	154.0	279.4	519.4	949.2	1178.5	1225.1
82.5°	75.2	71.6	68.1	75.2	111.0	175.5	322.4	662.7	755.8	727.2
85°	71.6	75.2	60.9	57.3	78.8	114.6	204.2	408.4	340.3	340.3
87.5°	28.7	25.1	25.1	21.5	39.4	43.0	89.6	75.2	57.3	57.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)